

AMENDMENTS TO THE CLAIMS

Claims 1-30 are pending in the instant application. Claims 1, 3-4, 7-11, 13-14, 17-21, and 27-30 have been amended. The Applicant requests reconsideration of the claims in view of the following amendments reflected in the listing of claims.

Listing of claims:

1. (Currently Amended) A method for providing/facilitating communication in a mesh network using a plurality of access points, the method comprising:

coupling a first access point located in a first cell of the mesh network to at least a second access point located in a second cell of the mesh network;

providing service initially to at least one of a plurality of access devices in the mesh network by said at least a first access point located in said first cell; and

servicing within the mesh network, said at least one of a plurality of access devices by said at least a second access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold.

2. (Original) The method according to claim 1, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.

3. (Currently Amended) The method according to claim 2, further comprising transmitting a first signal from a first beamforming antenna coupled to said first access point, to said at least a second access point.

4. (Currently Amended) The method according to claim 3, further comprising transmitting a second signal from a second beamforming antenna coupled to said at least a second access point, to said first access point.

5. (Original) The method according to claim 4, wherein a path for facilitating said transmitting said first signal between said first beamforming antenna and said second beamforming antenna is an uplink channel.

6. (Original) The method according to claim 5, wherein a path for facilitating said transmitting of said second signal between said second beamforming antenna and said first beamforming antenna is a downlink channel.

7. (Currently Amended) The method according to claim 6, wherein said uplink channel and said downlink channel comprise a backhaul channel.

8. (Currently Amended) The method according to claim 1, further comprising coupling said first access point located in [[a]]said first cell to at least a third access point located in said first cell.

9. (Currently Amended) The method according to claim 8, further comprising servicing said at least one of a plurality of access devices by said at least a third access point located in said first cell, whenever a signal for said at least one of a plurality of access devices falls below [[a]]said specified threshold.

10. (Currently Amended) The method according to claim 9, wherein at least one of said first access point and said at least one of a plurality of access devices determines when said signal for said at least one of a plurality of access devices falls below [[a]]said specified threshold.

11. (Currently Amended) A machine-readable storage, having stored thereon a computer program having at least one code section for facilitating communication in a mesh network using a plurality of access points, the at least one code section being executable by a machine for causing the machine to perform the steps comprising:

coupling a first access point located in a first cell of the mesh network to at least a second access point located in a second cell of the mesh network;

providing service initially to at least one of a plurality of access devices in the mesh network by said at least a first access point located in said first cell; and
servicing within the mesh network, said at least one of a plurality of access devices by said at least a second access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold.

12. (Original) The machine-readable storage according to claim 11, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.

13. (Currently Amended) The machine-readable storage according to claim 12, further comprising code for transmitting a first signal from a first beamforming antenna coupled to said first access point, to said at least a second access point.

14. (Currently Amended) The machine-readable storage according to claim 13, further comprising code for transmitting a second signal from a second beamforming antenna coupled to said at least a second access point, to said first access point.

15. (Original) The machine-readable storage according to claim 14, wherein a path for facilitating said transmitting of said first signal between said first beamforming antenna and said second beamforming antenna is an uplink channel.

16. (Original) The machine-readable storage according to claim 15, wherein a path for facilitating said transmitting of said second signal between said second beamforming antenna and said first beamforming antenna is a downlink channel.

17. (Currently Amended) The machine-readable storage according to claim 16, wherein said uplink channel and said downlink channel ~~[[is]]~~comprise a backhaul channel.

18. (Currently Amended) The machine-readable storage according to claim 11, ~~further~~ comprising code for connecting said first access point located in ~~[[a]]~~said first cell to at least a third access point located in said first cell.

19. (Currently Amended) The machine-readable storage according to claim 18, ~~further~~ comprising code for servicing said at least one of a plurality of access devices by said at least a third access point located in said first cell whenever a signal for said at least one of a plurality of access devices falls below ~~[[a]]~~said specified threshold.

20. (Currently Amended) The machine-readable storage according to claim 19, wherein at least one of said first access point and said at least one of a plurality of

access devices comprises code for determining when said signal for said at least one of a plurality of access devices falls below ~~[[a]]~~said specified threshold.

21. (Currently Amended) A system for ~~providing~~facilitating communication in a mesh network using a plurality of access points, the system comprising:

~~means~~at least one circuitry that couples ~~for coupling~~ a first access point located in a first cell of the mesh network to at least a second access point located in a second cell of the mesh network;

~~said at least one circuitry provides means for providing service~~ initially to at least one of a plurality of access devices in the mesh network ~~[[by]]~~via said at least a first access point located in said first cell; and

~~said at least one circuitry services within the mesh network, means for servicing~~ said at least one of a plurality of access devices by said at least a second access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold.

22. (Original) The system according to claim 21, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.

23. (Original) The system according to claim 22, comprising a first beamforming antenna coupled to said first access point for transmitting a first signal from said first access point to said at least a second access point.

24. (Original) The system according to claim 23, comprising a second beamforming antenna coupled to said at least a second access point for transmitting a second signal from said at least a second access point to said first access point.

25. (Original) The system according to claim 24, wherein a path for facilitating said transmitting between said first beamforming antenna and said second beamforming antenna is an uplink channel.

26. (Original) The system according to claim 25, wherein a path for facilitating said transmitting between said second beamforming antenna and said first beamforming antenna is a downlink channel.

27. (Currently Amended) The system according to claim 26, wherein said uplink channel and said downlink channel comprise a backhaul channel.

28. (Currently Amended) The system according to claim 21, ~~further comprising coupling~~wherein said at least one circuitry couples said first access point located in ~~[[a]]said~~ first cell to at least a third access point located in said first cell.

29. (Currently Amended) The system according to claim 28, ~~further comprising servicing~~wherein said at least one circuitry services said at least one of a plurality of access devices ~~[[by]]~~via said at least a third access point located in said first cell, whenever a signal for said at least one of a plurality of access devices falls below ~~[[a]]said~~ specified threshold.

30. (Currently Amended) The system according to claim 29, wherein at least one of said first access point and said at least one of a plurality of access devices determines when said signal for said at least one of a plurality of access devices falls below ~~[[a]]said~~ specified threshold.